



CERTIFICATE OF MAILING

I hereby certify that on June 17, 2002, this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage in an envelope addressed to: Commissioner for Patents, Washington, DC 20231.

37 C.F.R. § 1.8(a) 37 C.F.R. § 1.10
 with sufficient postage as "Express Mail Post Office to
as first class mail Addressee" Mailing Label No.

Trudi Thompson
Trudi Thompson

PATENT

Applicant: **Marcus A. Horwitz et. al.**

Serial No.: **08/786,533**

Filed: **January 21, 1997**

Title: **ABUNDANT EXTRACELLULAR
PRODUCTS & METHODS FOR
THEIR PRODUCTION & USE**

Examiner: **A. Caputa**

Group Art Unit: **1645**

Atty Docket No.: **510030-143**

22/B
JUN
7/15/02
TECH CENTER 1600/2900
JUL 03 2002
REVIEWED

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RESPONSE TO OFFICE ACTION

Commissioner of Patents
Washington, DC 20231

Dear Sir:

In response to the Office Action dated December 18, 2001, applicants respond as follows.

At the outset the Applicants would like to acknowledge the thorough and thoughtful analysis the Examiner has given to the immediate case. However, the Applicants respectfully traverse her arguments based on the following claim amendments and arguments.

In the claims:

Please amend the claims as follows:

1. A vaccinating agent for use in promoting an effective immune response, in a mammalian host, against an infectious pathogen from the genus *Mycobacterium*, said vaccinating agent comprising:

at least a portion of at least one majorly abundant extracellular product selected from the group consisting of *M. tuberculosis* 110 KD protein, 80 KD protein, 71 KD protein, 58 KD protein, 45 KD protein, 30 KD protein, 24 KD protein, 23.5 KD

B

MAB
C1